

REMARKS

Claims 1-8 are pending. By this Amendment, Claims 1 and 5-8 are amended. Support for the amended and added features are provided in the originally filed application, such as, for example only, the paragraph bridging pages 26-27 and Figure 19. As such, Applicants respectfully submit that no new matter is presented herein.

Claims 1-8 Recite Patentable Subject Matter

Claims 1-2 and 5-6 are rejected under 35 U.S.C. §102(b) as being anticipated by U.S. Patent Number 6,418,887 to Okamoto; Claims 3-4 are rejected under 35 U.S.C. §103(a) as being unpatentable over Okamoto in view of U.S. Patent Number 5,970,926 to Tsunoda et al. (hereinafter "Tsunoda"); and Claims 7-8 are rejected under 35 U.S.C. §103(a) as being unpatentable over Okamoto in view of U.S. Patent Number 6,682,380 to Irwin et al. (hereinafter "Irwin"). Applicants respectfully traverse the rejections.

Applicants respectfully submit that Claims 1 and 5-8 each recite that the second cooling path directly supplies cooling water to a cylinder head cooling water jacket while bypassing the exhaust passage cooling water jacket (Claims 1 and 5); or that the supply means supplies a remaining part of the cooling medium to the second component of the cooling means while bypassing the heat source (Claim 6); or that the cooling water is directly supplied to the cylinder head cooling water jacket while bypassing the exhaust passage cooling water jacket (Claims 7-8). See Figure 19 and the corresponding written description in the originally filed application.

Applicants respectfully submit Okamoto, Tsunoda and Irwin, alone or in combination, fail to teach or suggest such a feature.

Okamoto discloses two lines of coolant coming from a coolant pump (112) to a cylinder head (44) and a cylinder block (46). The two lines are united or merge into a single line at their upstream portions, and as such, the single line necessarily passes through a water jacket (84) for the exhaust manifold (85) of the exhaust system. Therefore, Okamoto fails to disclose or suggest the above-described features from Claims 1 and 5-8, i.e., a structural arrangement wherein cooling water or a cooling medium is supplied to a cylinder head cooling water jacket or a second component of cooling means while bypassing an exhaust cooling water jacket or a heat source.

Tsunoda is applied for disclosing at least one cooling water inlet into the head (34) is at a lowest part of the head and at an inlet provided in mating surfaces of the head (34) and the block (33). Tsunoda does not overcome the deficiencies in Okamoto.

Irwin is applied for disclosing a cylinder head cooling water temperature sensor. However, Irwin also does not overcome the deficiencies in Okamoto.

To qualify as prior art under 35 U.S.C. §102, a single reference must teach, i.e., identically describe, each feature of a rejected claim. As explained above, Okamoto fails to disclose or suggest each and every feature of Claims 1 and 5-8.

Furthermore, to establish *prima facie* obviousness of a rejected claim, each and every feature of the rejected claim must be taught or at least suggested by the applied art of record. See M.P.E.P. §2143.03. As explained above, Okamoto, Tsunoda and Irwin fail to teach or suggest each and every feature recited by Claims 1 and 5-8.

In view of the above, Applicants respectfully submit Claims 1 and 5-8 are not anticipated by, nor rendered obvious in view of, Okamoto, Tsunoda and Irwin.

Therefore, Applicants respectfully submit Claims 1 and 5-8 should be deemed allowable.

Claims 2-4 depend from Claim 1. It is respectfully submitted that these three (3) dependent claims be deemed allowable for at least the same reasons Claim 1 is allowable, as well as for the additional subject matter recited therein.

Applicants respectfully request withdrawal of the rejections.

Conclusion

In view of the foregoing, reconsideration of the application, withdrawal of the outstanding rejections, allowance of Claims 1-8, and the prompt issuance of a Notice of Allowability are respectfully solicited.

Should the Examiner believe anything further is desirable in order to place this application in better condition for allowance, the Examiner is requested to contact the undersigned at the telephone number listed below.

In the event this paper is not considered to be timely filed, the Applicants respectfully petition for an appropriate extension of time. Any fees for such an extension, together with any additional fees that may be due with respect to this paper, may be charged to Counsel's Deposit Account No. 01-2300, **referencing Attorney Docket Number 107348-00369.**

Respectfully submitted,
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Enclosures: Petition for Extension of Time
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